

SANTAVY, F.

CZECH

Constitution of α - and β -peltatin. J. Bartek and F. Santavy (Palacký Univ., Olomouc, Czech.). *Chem. Listy* 58, 917-19 (1964). The Hartwell (C.A. 45, 10834) formula for α -peltatin is favored on the basis of OMe and Ac detns. Consts. for α -peltatin-B are given: m. 271°, [α]_D 35°. Ac deriv., m. 263°, [α]_D -10°. In addn., a new compd., m. 302-6° (decompn.) [Ac deriv. m. 273-5° (decompn.)], was isolated from *Podophyllum peltatum*. M. Hudlický

SANTAVY, F.

Polarography of tropone and some of its derivatives
(Josef Bartek, Lubo Muzal, Teuvo Neos, and Frankie
Santavy, (Palacký Univ., Olomouc, Czech.), *Chem.
Laby* 46, 1123-1131 (1984). Tropone (I), 2-phenyltropone
(II), 2-benzotropone (III), colchicine (IV), N-acetylcol-
chicine (V), and methyl deriv. of colchicine (VI) were
subjected to polarographic and oscillographic investigation.
I, II, and IV gave in acidic and neutral solns. 2 two-electron
waves. Tropone, V, and VI in acidic medium represented
a two-electron reduction. At certain pH values the polaro-
graphic behavior of III corresponded to 8-electron reduction.
Tropolone (hinokittol, thujaplicin, colchicine, colchicine)
were reduced irreversibly at potentials close to those of their
BzH derivs. Tropone showed reversible reduction during
oscillographic investigation. M. Hudlický

SANTAVY-F.

Substances in meadow saffron and their derivatives.
Biological activity of colchicine derivatives in relation to their
constitution. M. Cernoch, J. Malinský, O. Tefupilova, and
F. Santavy (Palacky Univ., Olomouc, Czech.). *Arch.
intern. pharmacodynamie* 99, 141-62 (1954) (in German); cf.
C.A. 45, 4343a. — Colchicine and 83 derivs. were examd. for
acute toxicity and in many instances for their ability to pro-
duce mitotic arrest in metaphase in regenerating rat liver
(stathmokinetic effect). The toxicity-stathmokinetic index
varied from 1 to 10. The relation of structure to toxicity
was discussed in detail. Richard P. Riley

SANTAVY, F

O. Hanc, V. Hummel, and B. Hlavica's Chemická literatura, její dokumentace a použití (Chemical Literature, Its Documentation and Use); a book review. p. 271. CHEMICKÝ PRŮMYSL. (Ministerstvo chemického průmyslu) Praha. Vol. 5, No. 6, June 1955.

SOURCE: East European Accessions List, (EEAL) Library of Congress, Vol. 4, No. 12, December 1955.

SANTAVY, FRANTIŠEK

2

The isolation of further substances from the leaves of Indian hemp (*Cannabis sativa* L., var. *indica*). Z. Krejčí and František Santavý (Palackého Univ., Olomouc, Czech.). *Acta Univ. Palackianae Olomucensis* 6, 59-66 (1955) (English summary).—A microbiologically active acidic fraction was isolated from the leaves of Indian hemp. After acetylation with Ac_2O and NaOAc , it gave a microbiologically inactive neutral material which arose from phenolic substances of the ext., and an active acidic fraction (I) which crystd. from Et_2O and was recrystd. from EtOAc -petr. ether, giving a double m.p., $80-100^\circ/127-8^\circ$, $[\alpha]_D^{25} -71 \pm 4^\circ$ (c 0.671, CHCl_3), yielded a pink color with H_2SO_4 and a pos. reaction with $\text{C}(\text{NO}_2)_4$. Elementary analysis corresponded to $\text{C}_{20}\text{H}_{28}\text{O}_4$ or $\text{C}_{20}\text{H}_{26}\text{O}_4$; it contained 2 Ac groups and 2 double bonds which could be hydrogenated with PtO_2 in MeOH . It can be oxidized by perphthalic acid. I was called cannabidiolic acid and was considered to be a carboxy deriv. of cannabidiol, cannabinol, or tetrahydrocannabinol. Infrared spectrum of the diacetyl deriv. of I is given. Another acidic substance was found in hemp leaves from 19/2 and called acid II. It was subjected to sublimation at $100-130^\circ/1$ mm. and crystd. from ether and petr. ether, m. $132-4^\circ$. Elementary analysis corresponds to $\text{C}_{21}\text{H}_{30}\text{O}_4$. It is microbiologically inactive. Neutral petr. ether residue was hydrolyzed with alc. hydroxide in N° atm. and extd. with Et_2O . The petr. ether eluate from Al_2O_3 column was evapd. and recrystd. from petr. ether giving a paraffin, m. 58° . An alcohol (m. $59-60^\circ$) was obtained from the Et_2O eluate. Both were microbiologically inactive. I. M. H.

SANTAY, P.

400

/ Polacography of β -hydroxytryptone. B. Jambor, I. Bortol
and P. Santay. Collection Czechoslov Chem Commun:
20 1964-1965 and Germany. See C.A. 69, 1555g

(2)

1964
2004

SANTAVY, F.

CZECH

Polarography of alkaloids. XX. Polarography of sinomenine. M. Maturová, D. Tkadlová-Krestynová, and F. Santavý (Lékař. fak., Olomouc, Czech.). Chem. Listy 59, 600-7 (1965); C. C. A. 49, 5156A. Sinomenine gives a well-developed polarographic wave all over the range (pH of the Britton-Robinson buffer solns. The wave represents the uptake of 2 electrons. The polarographic reducibility of the alkaloids of the morphine series having a double bond conjugated with a ketonic group is confirmed. There is no O bridge in sinomenine, as it gives just 1 simple polarographic wave. P. Stránský.

SANTAVY, FRANTIŠEK

Metabolism of glutathione and related substances. Compounds containing free and bound sulphydryl groups in animal tissues. Zora Hoščalková, Miroslav Černoch, and František Santavý (Palackého Univ., Olomouc, Czech.) *Chem. Abstr.* 49:884-12(1955); cf. *C.A.* 48, 7783a. Animal tissue homogenates contain low-mol. compds. contg. SH groups as proved by polarography. The height of the polarographic waves is proportional in a linear fashion to the concn. of the homogenates dild. with physiol. soln. The observed waves correspond to the reduced glutathione or its fission products. No free SH groups of the tissue proteins were found polarographically. Effect of time upon the height of the polarographic waves was studied. On the basis of polarographic behavior, the presence of enzymes cleaving, reducing, or oxidizing the glutathione is postulated. The plasma proteins were found to be able to bind the added cysteine or reduced glutathione. M. Hudlíček

(2)

SANTAVY, FRANTIŠEK

C.H.

Isolation of some compounds of resins podophyllin (*Podophyllum peltatum*) and contribution to their structure. Josef Bartek, Helena Potěšilová, Vlasta Mušínová, and František Santavý (Palacký Univ., Olomouc, Czech.). *Chem. Listy* 49, 1550-60 (1955).—From resins podophyllin, the following compounds were isolated (the Me and Ac derivs. were prep'd as indicated below): *quercetin*, m. 318-18° (Ac deriv., m. 194-6°); a mixt. of *phytosterols*, m. 140-2°, $[\alpha]_D^{25}$ -35.9°, $[\alpha]_D^{25}$ -36.7°; *podophyllotoxin*, m. 115-17°, $[\alpha]_D^{25}$ -131°, $[\alpha]_D^{25}$ -132°; α -*peltatin-A* (I), m. 240-3°, $[\alpha]_D^{25}$ -123°; β -*peltatin-A* (II), m. 240-2°, $[\alpha]_D^{25}$ -120°, -122°; *picropodophyllin*, m. 235-7°, $[\alpha]_D^{25}$ -8°; a compd. (P-1), m. 303-5° (Ac deriv., m. 273-5°, $[\alpha]_D^{25}$ -6°); a compd. (P-2), m. 220-2°; *diacetyldimethylpicropodophyllin*, m. 204-6°, $[\alpha]_D^{25}$ -30°; *tetraacetyl-1-O-(β -D-glucopyranosyl)picropodophyllin*, m. 200-8°, $[\alpha]_D^{25}$ -2°; α -*peltatin-B* (III), m. 276-8°, $[\alpha]_D^{25}$ -45°; β -*peltatin-B* (IV), m. 212-14°, $[\alpha]_D^{25}$ -41°; *acetylpicropodophyllotoxin*, m. 211°, $[\alpha]_D^{25}$ -143°; *acetylpicropodophyllin*, m. 218°, $[\alpha]_D^{25}$ -20°; *diacetyl deriv. of I*, m. 233°, $[\alpha]_D^{25}$ -117°; *di-Me ether of I*, identical with Me ether of II, m. 164°, $[\alpha]_D^{25}$ -120°; *di-Ac deriv. of III*, m. 264°, $[\alpha]_D^{25}$ -10°; $[\alpha]_D^{25}$ -12°; *di-Me ether of III*, identical with Me ether of IV, m. 186°, $[\alpha]_D^{25}$ -10°; *Ac deriv. of II*, m. 231°, $[\alpha]_D^{25}$ -125°; *Ac deriv. of IV*, m. 223°, $[\alpha]_D^{25}$ -6°. Methylations were carried out with an ether soln. of CH_3N_3 , acetylations by heating 12 hrs. at 60° with Ac_2O and AcOK . The results agree with structures proposed by Schrecker and Hattwell (*C.A.* 49: 3132h) and contradict the structures of Press and Brin (*C.A.* 49: 3136e). M. Hudlický

(3)

5. 11. 1904, 1904
Hamsik, Antonín, and Santavy, František: Lékařská
chemie. Díl IV. Biochemie. Prague: Státní zdravot-
nické Nakl. 1950. 678 pp. Cf. C.A. 50, 7121a

SANTAVY, F.

Experimental pathologist MUDr. Jaroslav Marek. Cesk. fysiolog.
5 no.1:112-115 26 Mar 56.

(BIOGRAPHIES,

Marek, Jaroslav, biobibliog. (Cz))

SANTAVY, F.

Doctor Jaroslav Marek as a physiopathologist. *Physiol. bohem.*
5 no.1:121-124 1956.

(OBITUARIES,

Marek, Jaroslav (Fr))

(BIOGRAPHIES,

Marek, Jaroslav, bibliog. (Fr))

SAN LAY, KRANTICEK

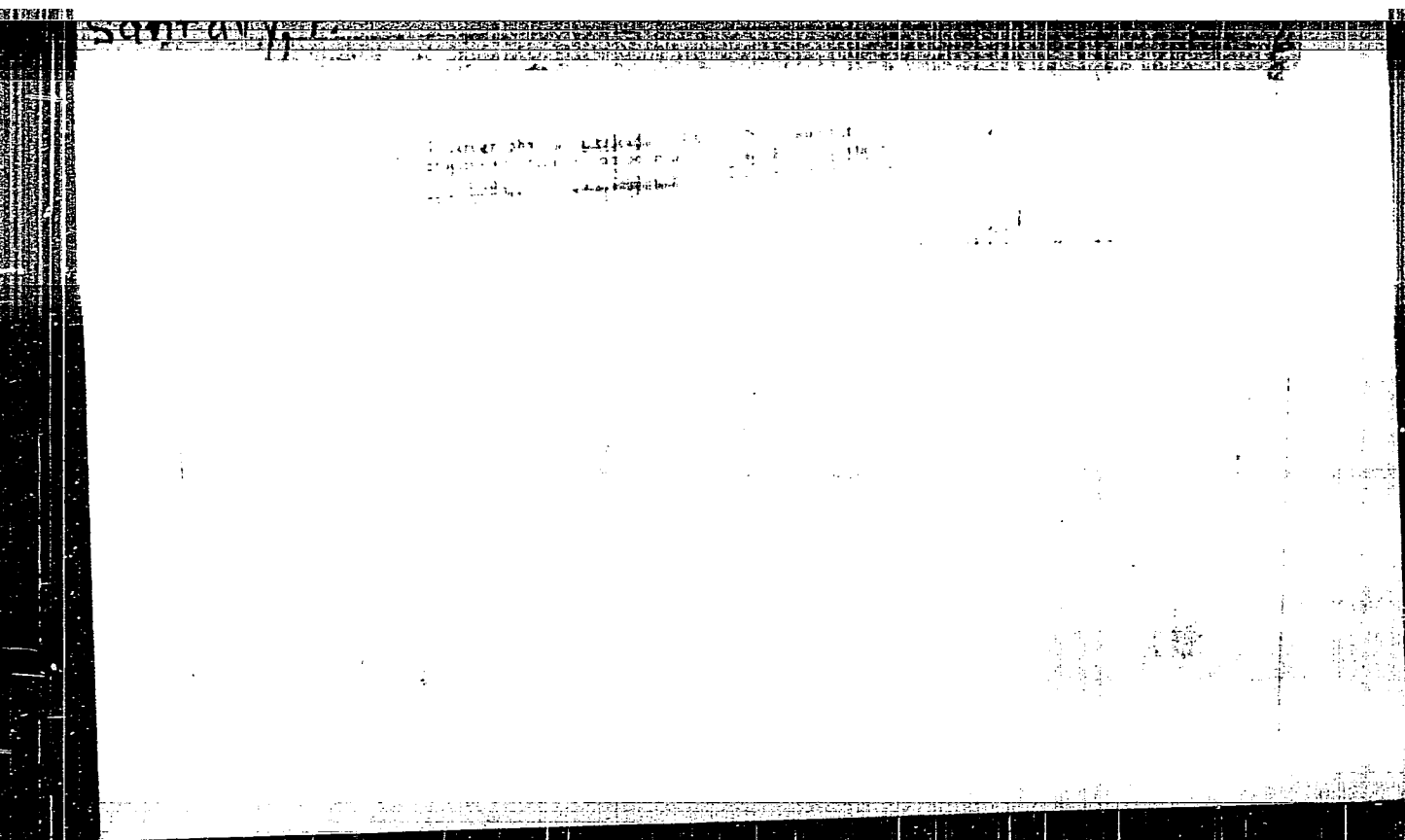
6

11/88

Chem. Tropilidenes, tropones, and tropolones. III. František
Šantavy (Palacký-Univ., Olomouc, Czech.). *Chem. Tech.*
(Berlin) 8, 612-20(1966); cf. C. I. 50, 15500e.—A review
with 351 references. H. K. Livingston

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447120016-5



APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447120016-5"

SANTAVY, F.

Polarography of alkaloids. XXI. The constitution of protopine and related compounds. J. Slavik, I. Slavkova, V. Preininger, and F. Santavy (Univ. Olomouc, Czech.). Chem. Listy 50, 360 (1956); cf. C.A. 49, 10083a. Polarographic studies of the dependence of the kinetic wave of protopine (I) on pH lead to the conclusion that in an acid soln. the carbonyl group of I is not preserved. A polarographically reducible group is found in the pH range 8-11. The carbonyl group of substances having quaternary N in the mol. remain preserved in the entire range of the Britton-Robinson buffer soln. This is concluded from the pH-dependence of the 2-electron-diffuse-wave of protopine methiodide. P. Stralska.

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34 NTAVY, D.
CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and Their Synthetic Analogues. E-3

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26960.

Author : Šantavý, F.; Herout, V.

Inst :

Title : Substances of Meadow Saffron and Their Derivatives. XLIV. Separation of Substances from Petroleum Ether Extract of Meadow Saffron (Colchicum Autumnale L.) Flowers.

Orig Pub: Chem. listy, 1956, 50, No. 4, 672 - 674; Sb. chekhesl. khim. rabot, 1956, 21, No. 6, 1659 - 1660.

Abstract: 60 to 70% of non-saponifying substances were obtained by treating the petroleum ether extract from meadow saffron flowers with alcohol solution of NaOH. The following was separated

Card 1/3

SANTAVY, F. ; RUDINGER, J.

"Glutathione; Proceedings of the Symposium held at Ridgefield, Connecticut, 1954; a book review." p. 851.

Institute of Applied Physics, (Czechoslovak Academy of Sciences.) Vol. 50, no. 5, May 1956.

SO: Monthly Index of ^{EAST} European Accession (EEAI) LC, Vol. 7, No. 5 May 1958

SANTAVY, F.; LOMSKY'S, J.

List of Foreign Periodicals on Technical and Related Sciences in the Libraries
of Czechoslovakia; a book review. p. 1033. (Chemicke Listy, Praha. Vol. 50, no. 6,
June 1956.)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Unci.

SANTAG, R

Substances of Colchicum autumnale and their deriva-
tives XLVI Colchicine and alkaloids in Liliaceae mo-
lecula Preliminary report on the Santag, Pa-
tents 1

CZECHOSLOVAKIA / Human and Animal Physiology. Metabolism.

T-2

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3186

Author : Jakubickova, Z.; Santavy, F.; Maturova, M.;
Kulhanek, V.

Inst : Not given

Title : Metabolism of Glutathione and of Similar Substances.
II. Pertaining to the Problem of Cysteine Oxidation
in Protein Media in Vitro

Orig Pub : Ceskosl. fysiол., 1957, 6, No 1, 67-73

Abstract : No abstract given

Card 1/1

CZECHOSLOVAKIA/Human and Animal Physiology (Normal and
Pathological). Metabolism. Nitrogen Metabolism.

T-2

Abs Jour : Ref Zhur = Bioh., No 16, 1958, 74569

Author : Jakubickova, Z., Santavy, F., Maturova, M., Kulhanek, V.

Inst : -

Title : Metabolism of Glutathione and Natural Substance. II.
Acidity of Cysteine in Protein Mediums in vitro.

Orig Pub : Physiol. bohemosl., 1957, 6, No 1, 93-101

Abstract : No abstract.

Card 1/1

SANTAVY, F.

Professor MUDR. Ludvik Drastich--Septuagenarian. Physiol. bohém.
6 no.2:278-284 1957.

(BIOGRAPHIES

Drastich, Ludvik, bibliog.)

SALIVY, F.

"Substances of Colchicum plants and their derivatives. XLVI. Colchicum alkaloids in Littonia modesta Hook; preliminary communication. In English.

P. 652. Collection of Czechoslovak Chemical Communications. Sbornik Chekhoslovatskikh Khimicheskikh Rabot. (Praha, Czechoslovakia) Vol. 22, no. 2, Apr. 1957.

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

SANTAVY, F.

"Index of communications by the academician, Professor R. Lukes."

p. iii (Collection of Czechoslovak Chemical Communications., Vol. 22, no. 5,
Oct. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 7, July 1958

SANTANY, FRANT

TOP SECRET, Source: SIVTAN, Spent.

Relationship of morphological and biochemical investigation of spermatozoa. Dokl. Akad. Nauk. 22[36] no.5:355-358 June 57.

1. Fak. I. - zsm. Filozofika PU, prednosta prof. Dr Jan Marasich. Chem.
2. Fak. II PU v Bratislave, prednosta Prof. Dr Fr Santavy.

(1723)

biochem. & her hol. relationship (Gr.)

SANTAVY, F.; ZAJICEK, D.; NEMECKOVA, A.

"Compounds of Colchicum autumnale L. and their derivatives. XLVII. Isolation and identification of substances of some plants related to Colchicum autumnale L. In German."

p. 1482 (Collection of Czechoslovak Chemical Communications. Vol. 22, no. 5, Oct. 1957, Praha, Czechoslovakia.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 7, July 1958

CZECHOSLOVAKIA/Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khim., No 15, 1958, 49740.

Author : Santavy F., Jambor B., Nemeckova A., Mollin J.,
Dartek J.

Inst :

Title : Effect of Substituents in Position 2 on the Polarographic Reducibility of Tropone.

Orig Pub: Sb. chekhosl. khim. rabot, 1957, 22, No 5, 1655-1660.

Abstract: See RZhKhim, 1958, 20798.

Card : 1/1

SANTAVY, F.

"List of publications by Academician R. Lukes." p. 401

Institute of Applied Physics, (Czechoslovak Academy of Sciences.) Vol. 51, no. 3,
Mar. 1957.

^{EAST}
SU: Monthly Index of European Accession (EEAI) LC, Vol. 7, No. 5 May 1958

SANTAVY, F.

CZECHOSLOVAKIA/Organic Chemistry. Naturally Occurring Substances
and their Synthetic Analogs. G-3

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11442.

Author : Santavy, F., Zajicek, D. V., and Nemeckova, A.

Inst :

Title : Colchicum Substances and Their Derivatives. XLVII.
Isolation and Identification of Alkaloids from Several
Plants Related to Colchicum.

Orig Pub: Chem Listy, 51, No 3, 597-602 (1957) (in Czech)

Abstract: The seeds of Colchicum Hierosolymitanum Feinb contain
neither colchicine (I) nor ether neutral or phenolic sub-
stances containing the tropolone ring. However, they
have been found to contain considerable quantities of
substance F (II) (demecolchicine, colchamine) and sub-
stance S. I, and in all probability also lumicolchicine,

Card : 1/2

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SANTAVY, F.

Effect of various substances on position 2 on the polaro-

graphs show 2-substituted compounds and the ring system
which is a derivative of the compound described by

SANTAVY, F.: POTESILOVA, H.: KUBICEK, R.

Isolation of rutin from the plant Senecio erraticus, ssp. barbaraeifolius.

p; 1767 (Chemicke Listy) Vol 51, no. 9 Sept 1957. Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 1, Jan 1958

EXCERPTA MEDICA Sec 9 Vol 13/2 Surger, Feb 59

859. (307) USE OF CITRATE IN THE TRANSFUSION SERVICES - Koldzce
používání citráty v transfusní službě - Šantavý F. and Těluplilová O.
Chem. Úst. Lék. Fak. Palackého Univ., Olomouci - CAS. LÉK. ČES. 1957
96/44 (1401-1405) Graphs 1 Tables 2

Studies of the acid-base balance in plasma of Czech and foreign production, with
and without citrate, and a study of the literature has led to the conclusion that
citrate plasma is not suitable for transfusion. Citric acid is a strong acid which
removes alkaline cations from bicarbonate binding, thus producing an acidosis and
decreasing the rate of CO_2 loss from the body. Since it is not rapidly filtered in

859

the capillary bed and is not oxidized, it can cause severe metabolic changes. The unfavourable conditions for citrate removal from the blood are still worse under conditions of haemorrhagic shock (low blood pressure, tissue anoxia), when large quantities of fluids are infused. In addition, in higher concentration, citrate binds Ca ions and leads to cardiac failure. Other anticoagulants should be sought for use in the transfusion services.

SANTAVY, F.

KUBICEK, Radovan; SANTAVY, Frantisek

Various biochemical findings in seminal fluid. Cas. lek. cesk. 96 no.50:
1549-1550 13 Dec 57.

1. Chemicky ustav lebarske fakulty Palackeho university v Olomouci,
prednosta prof. Dr Fr. Santavy. R. K. Olomouc, Lidicka 8.

(SANTAVY)

biochem. (Cz))

7 7

4
2 May

Y. Polarography of tropone and tropolone compounds. F. Santavy (Palacky Univ., Olomouc, Czech.). *Z. physik. Chem. (Leipzig)* Sonderheft July, 1958, 210-21. The polarographic properties of the tropone and tropolone compds. are reviewed and summarized. Their behavior is similar to that of ortho-substituted benzaldehydes. They are polarographically reducible over the entire pH range, and the reduction waves can be used for both qual. and quant. analysis. 36 references. H. K. Zimmerman

Q. Q.

SHANTAVY, F.
CHERNÓKH, M. [Cernoch, M.], LANG, B., SHANTAVY, F. [Šantavý, F.]

Quantitative determination of substances with mercepta groups in
various parts of the central nervous system [with summary in English].
Biokhimiia 23 no.5:751-754 S-O '58 (MIRA 11:11)

1. Kafedra khimii i nevrologicheskaya klinika meditsinskogo fakul'teta
Universiteta v Olomoutse, Chekhoslovakiya.

(CENTRAL NERVOUS SYSTEM, metab.
sulfhydryl cpds (Rus))

(SULFHYDRYL COMPOUNDS, metab.
(CNS Rus))

COUNTRY : Poland
CATEGORY : E-3
ABS. JOUR. : RZKhim., No. 1959, No. 86295
AUTHOR : Santavy, F.
INST. :
TITLE : Polarography in Analytical Chemistry of Alkaloids.
ORIG. PUB. : Chem. analit., 1958, 3, No 3-4, 357-368
ABSTRACT : A review of the author's work on polarographic determination of alkaloids. Bibliography 30 references. -- N. Turkevich.

CARD:

Eighty years of the academician Antonia Hamsik. Fran-
tisk Santavy. Chemie (Prague) 10, 178(1958). Ivo Han

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SANTAVY, F

CZECHOSLOVAKIA/Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73422.

Author : Vladimir Preininger, Helena Potesilova, Frantisek Santavy.

Inst :
Title : Polarography of Some Heterocyclic Oxonium Compounds.

Orig Pub: Chem. listy, 1958, 52, No 1, 25-30; Collect. Czechosl. Chem. commun., 1958, 23, No 5, 860-865.

Abstract: The influence of pH on the waves of pyrrole, pyridine and quinoline aldehydes was studied. The E_1 of the anion differs from the E_1 of the non-dissociated acid in the case of the 5-pyrrolealdehyde-2-carboxylic acid. The reduction of the quinoline ring proceeds at more negative E-s than the reduction of aldehyde group in the case of quinoline derivatives.

Card : 1/2

CZECHOSLOVAKIA/Physical Chemistry. Electrochemistry.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73424.

Author : Preininger, Vladimir; Santavy, Frantisek.

Inst :

Title : Polarography of Alkaloids. XXII. On the Polarography of Veratrine Alkaloids.

Orig Pub: Chem. listy, 1958, 52, No 1, 140-141; Collect. czechosl. chem. Commun., 1958, 23, No 6, 1153-1154.

Abstract: The reduction (R) of the conjugate system of the α, β - unsaturated bond and of the keto group takes place in ervine. The height of the single 2-electron wave does not depend on pH. E_1 shifts 61 mv per unit of pH to the negative side with the pH rise. At pH = 0, $E_1 = -0.90$ v. Cevine, vera-

Card : 1/2

270) were caused by the use of not
report XXI in

SANTAVI, F.

SCIENCE

Periodical ČERNICKÝ LISTY. Vol. 52, no. 1, Jan. 1958.

SANTAVI, F. V. JIRASEK, R. ZADINA, and Z. BLAZEK'S Nase jedovate rostliny (Our Poisonous Plants); a book review. p. 160.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

SANTAVY, F.

CZECHOSLOVAKIA/Physical Chemistry. Electrochemistry.

D

Abstr Jour: Ref Zhur-Khim., No 5, 1959, 14800.

Author : Santavy F., Janbor D., Dononkos J.

Inst :

Title : Polarographic Study of Stipitate and Puberule Acids.

Orig Pub: Chem. listy, 1958, 52, No 3, 419-424.

Abstract: Polarographic waves of stipitate and puberule acids have been studied in buffer solutions with pH 2.9 - 10.9 in the presence and absence of H_2DO_3 additions. The characteristic of the waves and their pH dependence correspond to the dissociation processes of the examined acids, apparently to the separation of the OH-group. The assumption that the 7-member ring of both acids possesses an aromatic

Card : 1/2

F. SANTAVY

Distr: 4E2c(j)

7

/ Polarography of ferrocenemonoaldehyde. P. Vrblovský, R. Kubíček, and F. Santavý (Palacký Univ., Olomouc, Czech.). *Chem. Abstr.* 69: 174 (1968). Polarographic behavior of ferrocenemonoaldehyde was similar to that of aromatic aldehydes. In acid. solns. the substance gave a 1-electron reduction wave which was reformed by a preceding adsorption wave. At pH 8 a 2nd 1-electron reduction wave appeared. In neutral solns. both waves coincided and a 2-electron reduction wave was observed. The height of this last wave decreased with increasing pH value of the soln. The values of the corresponding half-wave potentials were -0.97 v. and -1.085 v. vs. standard calomel electrode and their shift was 81 mv./pH unit. F. Širáfek

5
3. May
1

JG

Santavy, Frantisek
-KUBICEK, Radovan; DOLENEK, Antonin; SANTAVY, Frantisek

Taurine in the retina. Cas. lek. cesk. 97 no.6-7:198-200 14 Feb 58.

1. Chemicky ustav lekarske fakulty PU v Olomouci, prednosta prof.
Fr. Santavy. Oeni klinika PU v Olomouci, prednosta prof. V. Vejdovsky.
 (BILE ACIDS AND SALTS, metab.
 taurine in animal retinae (Cz))
 (RETINA, metab.
 taurine in animals (Cz))

SANTAVI, F.

"Isolation of desoxyrodophyllotoxin from Resina rodophylli (Rodophyllum peltatum L.)"
In German. p. 314.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech.,
Vol. 24, No. 1, Jan. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 6, Sept. 59

Unclassified

COUNTRY : Czechoslovakia B-12
CATEGORY :
ABS. JOUR. : RZhKhim., No. 1959, No. 85511
AUTHOR : Vrublovsky, P.; Kubicek, R.; Santavy, F.
INST. :
TITLE : Polarography of Ferrocenmonoaldehyde.
ORIG. PUB. : Collect. Czechosl. Chem. Commun, 1959, 24,
No 2, 645-646
ABSTRACT : See RZhKhim, 1959, No 7, 22683

CARD:

LINDNER, Eduard; SANTAVY, Frant.; KODOUSEK, Rost.

Determination of citric acid level in the ejaculate. Cas. lek.
cesk. 98 no.32-33:1022-1025 14 Aug 59.

1. Por.-gyn. klinika, prednosta prof. MUDr. Jan Marsalek. Ustav lek.
chemie, prednosta prof. MUDr. Frant. Santavy, a Pathol. anat. ustav,
prednosta doc. MUDr. Cestmir Dvoracek, LFPU v Olomouci.

(CITRATES, chem.)

(SEMIN, chem.)

VOLKE, J.; KUBICEK, R.; SANTAVY, F.

Polarography of aromatic heterocyclic compounds. VI. Reduction of
aldoximes of pyridinecarboxylic acid. Coll Cz chem 25 no.3:871-
877 Mr '60. (EEAI 9:12)

1. Polarographisches Institut, Tschechoslovakische Akademie der
Wissenschaften, Prag und Institut fur medizinische Chemie,
Palacky-Universitat, Olomouc.

(Aromatic compounds)
(Pyridinecarboxylic acid)
(Oximes)
(Heterocyclic compounds)

TSCHU SHUN; KOLUCH, J.; SANTAVY, F.

Isolation of alkaloids from *Senecio vulgaris* L. Coll Cz chem 25 no.3:
934-939 Mr '60. (ZEAI 9:12)

1. Chemisches Institut, Medizinische Fakultät, Palacky-Universität,
Olomouc.
(Alkaloids) (Senecio vulgaris)

SANTAVY, F.; HORAK, M.; MATUROVA, M.; BRABENEC, J.

Contribution to the configuration chelidonines and explanation of their certain reactions. Coll Cz Chem 25 no.5:1344-1350 My '60.

1. Chemisches Institut, Medizinische Fakultät, Palacky Universität, Olomouc, und Chemisches Institut, Physikalisch-chemische Abteilung, Tschechoslowakische Akademie der Wissenschaften, Prag.

VOLKE, J.; KUBICEK, R.; SANTAVY, F.

Polarography of aromatic heterocyclic compounds. Part 7:
Reduction of nitriles and pyridinecarboxylic acids. Coll
Cz Chem 25 no.5:1510-1513 My '60.

1. Polarographisches Institut, Tschechoslowakische Akademie
der Wissenschaften, Prag, und Chemisches Institut, Medizinische
Fakultat, Palacky-Universität, Olomouc.

SANTAVY, F.; MATUROVA, M.; NEMECKOVA, A.; HORAK, M.

Contribution to the determination of the structure of rheadine.
Coll Cs Chem 25 no.7:1901-1913 J1 '60. (KEAI 10:9)

1. Chemisches Institut, Medizinische Fakultät, Palacky Universität,
Olomouc und Chemisches Institut, Tschechoslowakische Akademie der
Wissenschaften, Prag.

(Rheadine)

KOMPIS, I.; SCHROTER, H. B.; POTESILOVA, H.; SANTAVY, F.

Alkaloids of *Senecio erraticus* Bert. ssp. *barbaraeifolius* Krock) II.
Coll Cz Chem 25 no.9:2449-2453 S '60. (EBAI 10:9)

1. Chemisches Institut der Medizinischen Fakultät, Palacky-Universität,
Olomouc. 2. Jetzige Adresse: Chemisches Institut der Slowakischen
Akademie der Wissenschaften, Abt. Pharmazeutische Chemie, Bratislava
(for Kompis) 3. Jetzige Adresse: Arbeitsstelle für Biochemie der
Pflanzen der Deutschen Akademie der Wissenschaften zu Berlin: Halle/
Saale (for Schroter)

(Alkaloids) (*Senecio erraticus*)

MATUROVA, M.; TSCHU SHUN, J.; CTVRTNIK, J.; SANTAVY, F.

Polarography of alkaloids. XXV. Polarography of some papaverine derivatives. Coll Cz Chem 25 no.12:3321-3329 D '60.
(EEAI 10:9)

1. Chemisches Institut, Medizinische Fakultät, Palacky-Universität, Olomouc, und Farmakon, Olomouc.

(Polarograph and polarography) (Alkaloids)
(Papaverine)

NEMECKOVA, A.; JANAK, J.; PELIKAN, Vl.; SANTAVI, F.

Analysis of intestinal gases with gas chromatography. Cesk. fysiол.
10 no.5:461-463 '61.

1. Chemicky ustav lek. fak. PU, Olomouc, Laborator pro analysu
plynu ~~GA~~AV, Brno a Gastroenterologicka laborator lek. fak. PU,
Olomouc.

(INTESTINES)

(GASES)

(CHROMATOGRAPHY)

ZUMAN, P.; CHODKOWSKI, J.; SANTAVY, F.

Polarography of nonbenzenoid aromatic and related substances. VII. A polarographic study of the acid-base properties of tropylium ion.
Coll Cz chem 26 no.2:380-391 F '61. (REAI 10:9)

1. Polarographic Institute, Czechoslovak Academy of Science, Prague and Chemical Institute, Medical Faculty, Palacky's University, Olomouc (for Zuman and Santavy) 2. Standing address: Institute of Physicochemical Analytical Methods, Polish Academy of Science, Warsaw, Poland (for Chodkowski).

(Polarograph and polarography) (Aromatic compounds)
(Tropylium compounds)

SANTAVY, F.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: Chemical Institute of the Medical Faculty, Palacky University
(Chemisches Institut der medizinischen Fakultät, Palacky-
Universitaet), Olomouc and Institute of Organic Chemistry,
Technical College of Chemistry (Institut fuer organische
Chemie, Technische Hochschule fuer Chemie), Prague

Source:

Prague, Collection of Czechoslovak Chemical Communications,
Vol 26, No 11, November 1961, pp 2749-2753

Data:

"Polarography of the Alkyl and Aryl Amides of Maleic Acid."

Authors:

NEMECKOVA, A
MATUROVA, M
PERGAL, M
SANTAVY, F

SANTAU, F.

day

- Prague, Collection of Czechoslovak Chemical Communications, no. 41, April 1964 (continued).
29. A. MARGALIT of the Institute of Chemical Technology at A. M. K. University in Prague, Poland; pp 979-986.
30. "On the topic, Part I: Composition of the C11 from the leaves of *Salvia officinalis* L., Institute of Organic Chemistry and Technology at the Czechoslovak Academy of Sciences, Prague; pp 987-993 (English article); C. 1072 and V. 1023.
31. "On the topic, Part II: The Primary Structure of Spices Whole Molecules in View of the General Principles Governing the Structure of Proteins," J. 8004, Institute of Organic Chemistry and Biochemistry at the Czechoslovak Academy of Sciences, Prague; pp 994-1000 (English article).
32. "On Proteins. Part III. Analysis of the Primary Structure of Bacterial Cytochrome C," J. 8004, Institute of Organic Chemistry and Biochemistry at the Czechoslovak Academy of Sciences, Prague; pp 1001-1008 (English article).
33. "Dependence of the Hydrolysis, by Means II, on the Activity of the Enzyme," J. 8004, Institute of Organic Chemistry and Biochemistry at the Czechoslovak Academy of Sciences, Prague; pp 1009-1013 (English article).
34. "Contributions to the Contents of Amino Acids at Higher Temperature," A. 1004, V. 1004, Institute of Organic Chemistry and Biochemistry at the Czechoslovak Academy of Sciences, Prague; pp 1014-1018.
35. "The Topic of Bivalent Cobalt, Connected with the Process of the Enzymatic Hydrolysis of the Protein," J. 8004, Institute of Organic Chemistry and Biochemistry at the Czechoslovak Academy of Sciences, Prague; pp 1019-1023.
36. "The Polarity of the Amino Acids and the Hydrolysis of the Protein," A. 1004, V. 1004, Institute of Organic Chemistry and Biochemistry at the Czechoslovak Academy of Sciences, Prague; pp 1024-1028.
37. "The Conformational Change of Proteins in Enzymes," J. 8004, Institute of Organic Chemistry and Biochemistry at the Czechoslovak Academy of Sciences, Prague; pp 1029-1033.
38. "The Direct Reaction of Nitrites with Tetraammonium Lead Acetate," A. 1004, V. 1004, Institute of Organic Chemistry and Biochemistry at the Czechoslovak Academy of Sciences, Prague; pp 1034-1038.

27

4/6

NEMECKOVA, A.; SANTAVY, F.

Isolation of alkaloids from the *Papaver rhoeas* L. and the
Papaver dubium L. Coll Cz Chem 27 no.5:1210-1223 My '62.

1. Chemisches Institut, Palacky Universitat, Olomouc.

KOMPIS, I.; SANTAVY, F.

Alkaloids of *Soncio erucifolius* L. Coll Cz Chem 27 no.6:1413-1421
Je '62.

1. Chemisches Institut der Slowakischen Akademie der Wissenschaften,
Abteilung fur pharmazeutische Chemie, Bratislava (for Kompis).
2. Chemisches Institut, Medizinische Fakultat, Palacky
Universitat, Olomouc (for Santavy).

SANTAVY, F.

"Quantitative determination of alkaloids in drugs and drug preparations" by O.E. Schultz and F. Zymalkowski. Reviewed by F. Santavy. Coll Cz Chem 27 no.6:1514-1515 Je '62.

SANTAVY, F.; SULA, B.; MANIS, V.

Isolation of alkaloids from the *Senecio viscosus* L. and
Senecio rivularis D.C. Coll Cz Chem 27 no.7:1666-1672
Jl '62.

1. Chemisches Institut, Medizinische Fakultät, Palacky
Universität, Olomouc, und Kreismuseum für Heimatkunde,
Olomouc.

SANTAVY, F.

Biogenesis of poppy alkaloids and their use for systematization of plants of the Papaver genus. Coll Cz Chem 27 no.7:1717-1720 JI '62.

1. Chemisches Institut, Medizinische Fakultät, Palacky Universität, Olomouc.

SANTAVY, F.

"Human biochemical genetics" by H.Harris. Reviewed by F.Santavy.
Chem listy 56 no.11:1371-1373 N '62.

EL-HAMIDI, A; ŠANTAVÝ, F.

Czechoslovakia

1. Medical Plants Research Unit, National Research Center, Dokki, Cairo (for El-Hamidi) 21 Chemical Institute, Medical Faculty, Palacky University -- Olomouc (for Santavý).

Prague, Collection of Czechoslovak Chemical Communications, No 9, 1962, pp 2111-2117

"Substances from the Plants of the Subfamily Wurm-
baeoideae and their Derivatives. LIII. Chemical
Investigation of Colchicum cornigerum."

EL-HAMIDI, A.; SANTAVY, F.

Substances from the plants of the subfamily *Wurmbeoidae* and their derivatives. Part 53: Chemical investigation of *Colchicum cornigerum* (Sweinf.) Tackh. et Harar. Coll Cz Chem 27 no.9:2111-2118 S '62.

1. Medical Plants Research Unit, National Research Center, Dokki, Cairo, U.A.R. (for El-Hamidi). 2. Chemical Institute, Medical Faculty, Palacky University, Olomouc (for Santavy).

SANTAVY, F.

"Index Merck." Reviewed by F. Santavy. Chem listy 57 no.3:
286 Mr '63.

SANTAVY, F.

CZECHOSLOVAKIA

SALEH, M; EL-GANGIHI, S; EL-HAMIDI, A; SANTAVY, F.

1. Medical Plants Research Unit of the National Research Center, Dokki, Cairo, U.A.R;
2. Chemical Institute of the Medical Faculty of Palacky University, Olomouc

Prague, Collection of Czechoslovak Chemical Communications,
No 12, 1963, pp 3413-3422

"Substances from the Plants of the Subfamily Wurmbeoideae
and their Derivatives. LVI. Further Chemical Investigation
of Colchicum cornigerum (Sweinf.) Täckh. et Drar. "

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SANTAVY, F.

"Physical methods in organic chemistry " by G. Kresce. Pts.
1-2. Reviewed by F. Santavy. Chem listy 57 no. 12: 1312
D '63.

SANTVY
CROSS, A.D.; SANTVY, F.; TRIVEDI, B.

Substances isolated from plants of the subfamily Wurmbeoideae and their derivatives. Pt. 54. Coll Cz Chem 28 no. 12:3402-3412 D '63.

1. Chemical Institute, Medical Faculty, Palacky University, Olomouc (for Santavy and Trivedi).
2. Research Laboratories, Syntex, S.A. Mexico, D.F. (for Cross).

TRIVEDI, B.; SANTAVY, F.

Alkaloids of the plant *Senecio subalpinus* Koch. Coll Cz
Chem 28 no. 12:3455 D '63.

1. Chemical Institute, Medical Faculty, Palacky University,
Olomouc.

CROSS, A.D.; EL-HAMIDI, A.; HRBEK, J.Jr.; SANTAVY, F.

Substances from the plants of the subfamily Wurmbaeoideae and their derivatives. Pt.58. Coll Cz Chem 29 no.5:1187-1192 My '64.

1. Institute of Chemistry, Faculty of Medicine, Palacky University, Olomouc (for Hrbek and Santavy). 2. Research Laboratories, Syntex S.A., Apartado Postal 2679, Mexico, F.D. (for Cross). 3. Medical Plants Research Unit, National Research Center, Dokki, Cairo, U.A.R. (for El-Hamidi).

BLAHA, K.; HRBEK, J. (Jr); KOVAR, J.; PIJEWSKA, L.; SANTAVY, F.

Data on the configuration of nitrogen containing compounds. Pt. 18.
Coll Cz Chem 29 no.10:2328-2340 0 '64.

1. Laboratorium fur heterocyclische Verbindungen, Tschechoslowakische
Akademie der Wissenschaften, Prague und Institut fur Chemie, Medizinische
Fakultat, Palacky-Universitat, Olomouc.

SANTAVY, F., prof. (Olmous)

Symposium on substances with tranquilizing effect. Chem
listy 58 no.5:609 My '64.

KAUL, J.L.; MOZA, B.K.; SANTAVY, F.; VRUBLOVSKY, P.

Substances from the plants of the subfamily Wurmbeoideae and their derivatives. Pt. 59. Coll Cz chem 29 no.7:1689-1701 J1 '64.

1. Chemical Institute, Medical Faculty, Palacky University, Olomouc.

HRBEK, J. (Jr); SANTAVY, F.

Substances from the plants of the subfamily Wormbaeoidae and their derivatives. Pt.60. Chem Cz Chem 29 no.11:2822-2831 N '64.

1. Institute of Chemistry of the Faculty of Medicine of Palacky University, Olomouc.

SANTAVY, F.

"Quantitative organic analysis via functional groups" by
S. Siggia. Reviewed by F. Santavy. Chem listy 58 no.8:
998-999 Ag '64.

1. Editorial board member, "Chemické listy."

CZECHOSLOVAKIA

SANTAVY, F.; KAUL, J. L.; HRUBAN, L.; DOLEJS, L.; MANUS, V;
BLAHA, K.; CROSS, A.D.

1. Chemical Institute of the Medical Faculty of Palacky University, Olomouc (for Santavy, Kaul, Hruban); 2. Institute of Organic Chemistry and Biochemistry, Prague (for Dolejs, Blaha); 3. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague (for Manus); 4. Syntex Research Center, Palo Alto, California, U.S.A. (for Cross)

Prague, Collection of Czechoslovak Chemical Communications,
No 10, 1965, pp 3479-3499

"Constitution of Rhoeadine and Isorhoeadine."

SANTAVY, F.; KAUL, J.L.; HRUBAN, L.; DOLEJS, L.; HANUS, V.; BLAHA, K.

Constitution of rhoeadine and isorhoeadine. Coll cz Chem 30
no.1:335-338 Ja '65.

1. Chemical Institute of the Medical Faculty of Palacky
University, Olomouc (for Santavy, Kaul and Hruban). 2. Institute
of Organic Chemistry and Biochemistry of the Czechoslovak
Academy of Sciences, Prague (for Dolejs and Blaha). 3. Institute
of Physical Chemistry of the Czechoslovak Academy of Sciences,
Prague (for Hanus). Submitted July 22, 1964.

NEMECKOVA, A.; SANTAVY, F.

Resynthesis of rhoeadine and of some of its homologues from
rhoeagenine. Coll Cz Chem 30 no.3:912-914 Mr '65.

1. Chemical Institute of Medical Faculty of Palacky University,
Olomouc. Submitted June 2, 1964.

SANTAVY, F.

Dr. Oldrich Hanc, Scientific Secretary of the Czechoslovak
Chemical Society at the Czechoslovak Academy of Sciences, at
50. Chem listy 59 no.3:361 Mr '65.

1. Editorial Board Member, "Chemicke listy."

CZECHOSLOVAKIA

FOTESILOVA, H; HABEK, Jr. J; SANTAVY, F

Chemical Institute, Faculty of Medicine, Palacký University, Olomouc - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1967, pp 141-157

"Substances from plants of the Eurhacoidae subfamily and their derivatives. Part 45: Paper and thin-layer chromatography of alkaloids of the Eurhacoidae subfamily."

CZECHOSLOVAKIA

SANTAVY, F; NEMECKOVA, A

Chemical Institute, Medical Faculty, Palacky University, Olomouc - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1967, pp 461-462

"Transformation of the alkaloids R-S (Papaverrubin A) from Papaver rhoeas L. into izorhoeadin."

SANTAVY, I.

Santavy, I. Transformation of Sommerfeld's formula for vertical dipole. p. 475.
CESKOSLOVENSKY CASOPIS PRO FYSIKU. Praha. Vol. 4, no. 4, Sept. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11,
Nov. 1955, Uncl.

SANTAVY, I.

1000

CZECH

538.166

4819 Transformation of Sommerfeld's formula for
vertical dipole. I. SANTAVY. Letter in Czech. J. Phys.
4, No. 4, 308-310 (1959) in Russian.
It is shown that the formula previously obtained
[J. Weyl, Ann. Phys. (Leipzig) 40, No. 5, 481-500
(Nov. 20, 1919)] for the space wave can be deduced
directly from Sommerfeld's formula for the potential
function of an electric dipole, situated at a plane
distance with its axis normal

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APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447120016-5"

SANTAVY, I.

SANTAVY, I. Radiation of electric dipoles on the edges of two isolators.
p. 255.

Vol. 5, no. 3, May 1955
CESKOSLOVENCKY CASOPIS PRO FYSIKU
SCIENCE
Praha, Czechoslovakia

So: East European Accessions, Vol. 5, no. 5, May 1956

Handwritten: Kautz, George

Kautz, George. Über Integraldarstellungen mit eindeutiger
Randwertproblemen.

Handwritten: Santavy, Ivan

Santavy, Ivan. The radiation of an electric dipole near
the boundary between two media. Czechoslovak J
Phys. 5 (1955), 340-368. (Russian. English summary) *1/1*

This paper is another contribution to the literature on a
famous problem of Sommerfeld. The distant field of a
radiating vertical dipole near the horizontal plane
boundary separating two non-conducting semi-infinite
media is studied. The dielectric constants are assumed to

Continuation of Kenty
I-P

The Reciprocity Law for Nonharmonic Wave Processes

Santavy, Ivan. Der Reziprozitätssatz der nichtharmonischen Wellenvorgänge. *Apl. Mat.* 2 (1957), 390-397.
(Czech. Russian and German summaries)

The author considers a function $U=U(x, y, z, t)$ satisfying the wave equation

$$\Delta^2 U = \frac{1}{a^2} \frac{\partial^2 U}{\partial t^2}$$

inside an open set O which is bounded by a closed surface of the Liapunov type, with U vanishing at this boundary. At a point $A(x_A, y_A, z_A)$, $A \in O$, is a source. The author constructs a function satisfying the wave equation at every point of O except at the source A :

Sentav, Ivan.

where U_{0A} is defined everywhere in O (including the source point A) and chosen so that U_A satisfies both the wave equations and the boundary condition $U=0$. The subscript A in U_A means that U is caused by a source at the point A , and consequently U_B would mean that U is caused by a source at the point B . Using the Laplace transformation the author proves that for the function U is valid the reciprocity relation $U_A(B, t) = U_B(A, t)$.

T. Leser (Aberdeen, Md.)

5/2

Sm

SANTAVY, Ivan, doc., dr.

Molecular light generators. Part 1. Jemna mech opt 7 no.6:
172-176 Je '62.

1. Vojenska akademie Antonina Zapotockeho, Brno.

41061

9.5300

S/058/62/000/008/053/134
A061/A101

AUTHOR: Šantavý, I.

TITLE: Remarks on reciprocity in the passage of light through conductive layers

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 1, abstract 804
("Chekhosl. fiz. zh.", 1961, v. B11, no. 11, 783 - 786, German;
summary in Russian)

TEXT: Fragshteyn's method (RZhFiz, 1957, no. 3, 7309) is generalized to show that the light transmission factor in the case of normal incidence on a system of conductive layers from two opposite sides depends only on the conductivities of bounding media, and, in particular, is equal to unity for equal conductivities. The result does not depend on whether the layers are homogeneous or the refractive index and the conductivity change continuously.

M. Kard

[Abstracter's note: Complete translation]

Card 1/1

Z/030/62/000/006/001/001
E197/E187

AUTHOR: Šantavý, Iván, Docent, Doctor

TITLE: Molecular light generators

PERIODICAL: Jemná mechanika a optika, no.6, 1962, 172-176

TEXT: Part I of this expository article surveys the basic physical laws of spontaneous emission and the mutual dependence of radiating fields and molecules. The importance of lasers and their evolution via microwave amplification is stressed. Reference is made to a popularly written article by A.L. Schawlow. Discussed are the Einstein coefficients of emission and absorption, the spontaneous jump of a molecule from one energy level to the other and the ratio of spontaneous to induced emission in molecular generators at various frequencies, assuming thermal equilibrium and the validity of the Planck formula for the density of radiation of black bodies. The behaviour of molecules in an electromagnetic field is compared in first approximation to the behaviour of an electron oscillating in an electric field at natural frequency. Depending on phase angle either emission or absorption will take place. Quantum mechanics
Card 1/2 ✓

Molecular light generators

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E197/E187

give a more accurate picture of the character of resonance between field and molecule, and explain the probability of an atom to radiate a photon of a certain type. The frequency of the photons emitted by a molecule will have a certain range. The width of the spectral line is defined in terms of a theoretical time constant. However, the mutual interference between molecules will make the spectral line wider and the actual time constant, called relaxation time, becomes an important property. The Lorentz distribution of energy within the spectral line is given.

ASSOCIATION: VAAZ Brno

SUBMITTED: April 14, 1962

Card 2/2

SANTAVY, Ivan

Conference on optics. Pokroky mat fyz astr 8 no.5:299-302
'63.

SANTAVY, Ivan

"Lasers, quantum light generators" by Karel Patek. Reviewed by
Ivan Santavy. Jemna mech opt 10 no.3:3 of cover Mr '65.

SANTAY, I. (Kluzh, Rumynskaya Narodnaya Respublika); DEREVENKO, P. (Kluzh, Rumynskaya Narodnaya Respublika); DEREVENKO, V. (Kluzh, Rumynskaya Narodnaya Respublika); URAY, Z. (Kluzh, Rumynskaya Narodnaya Respublika)

Study of P-32 inclusion into erythrocytes under reaction to stress. Pat. fiziol. eksp. ter. 7 no.5:53-55 S-0'63
(MIRA 17:2)

1. Iz Kluzhskogo otdela yadernoy meditsiny (direktor T.Kholan).